

SEQUENCE LISTING

<110> University of Zurich  
<120> Hetero-associating coiled coil peptides  
<130> D 2398 PCT  
<140> PCT/EP00/05922  
<141> 2000-06-26  
<160> 36  
<170> PatentIn version 3.0  
<210> 1  
<211> 32  
<212> PRT  
<213> Artificial Sequence  
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<223> Description of Artificial Sequence: synthetic construct  
<220>  
<223> xaa at positions 5, 7, 12, 14, 19, 21, 26 and 28=mix of glu, lys, gln, arg  
<220>  
<223> xaa at position 15=mix of asn, val  
<220>  
<221> PEPTIDE  
<222> (1)..(32)  
  
<400> 1  
Val Ala Gln Leu Xaa Glu Xaa Val Lys Thr Leu Xaa Ala Xaa Xaa Tyr  
1 5 10 15  
Glu Leu Xaa Ser Xaa Val Gln Arg Leu Xaa Glu Xaa Val Ala Gln Leu  
20 25 30  
  
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<220>  
<223> xaa at positions 5, 7, 12, 14, 19, 21, 26 and 28=mix of glu, lys, gln, arg  
<220>  
<223> xaa at position 15=mix of asn, val  
  
<400> 2

Val Asp Glu Leu Xaa Ala Xaa Val Asp Gln Leu Xaa Asp Xaa Xaa Tyr  
 1 5 10 15

Ala Leu Xaa Thr Xaa Val Ala Gln Leu Xaa Lys Xaa Val Glu Lys Leu  
 20 25 30

<210> 3  
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<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 3

Val Ala Gln Leu Glu Glu Lys Val Lys Thr Leu Arg Ala Gln Asn Tyr  
 1 5 10 15

Glu Leu Lys Ser Arg Val Gln Arg Leu Arg Glu Gln Val Ala Gln Leu  
 20 25 30

<210> 4  
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 <212> PRT  
 <213> artificial sequence

<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 4

Val Ala Gln Leu Arg Glu Arg Val Lys Thr Leu Arg Ala Gln Asn Tyr  
 1 5 10 15

Glu Leu Glu Ser Glu Val Gln Arg Leu Arg Glu Gln Val Ala Gln Leu  
 20 25 30

<210> 5  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 5

Val Ala Gln Leu Gln Glu Lys Val Lys Thr Leu Arg Ala Arg Asn Tyr  
 1 5 10 15

Glu Leu Lys Ser Glu Val Gln Arg Leu Glu Glu Lys Val Ala Gln Leu  
 20 25 30

<210> 6  
 <211> 32  
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<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 6

Val Ala Gln Leu Glu Glu Gln Val Lys Thr Leu Gln Ala Arg Asn Tyr  
 1 5 10 15

Glu Leu Lys Ser Lys Val Gln Arg Leu Lys Glu Lys Val Ala Gln Leu  
 20 25 30

<210> 7  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 7

Val Ala Gln Leu Glu Glu Arg Val Lys Thr Leu Arg Ala Gln Asn Tyr  
 1 5 10 15

Glu Leu Lys Ser Lys Val Gln Arg Leu Glu Glu Gln Val Ala Gln Leu  
 20 25 30

<210> 8  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 8

Val Ala Gln Leu Glu Glu Gln Val Lys Thr Leu Glu Ala Glu Asn Tyr  
 1 5 10 15

Glu Leu Lys Ser Lys Val Gln Arg Leu Arg Glu Arg Val Ala Gln Leu  
 20 25 30

<210> 9  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 9

Val Ala Gln Leu Gln Glu Gln Val Lys Thr Leu Glu Ala Gln Asn Tyr  
 1 5 10 15

Glu Leu Glu Ser Glu Val Gln Arg Leu Lys Glu Gln Val Ala Gln Leu  
 20 25 30

<210> 10  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 10

Val Ala Gln Leu Glu Glu Arg Val Lys Thr Leu Lys Ala Glu Asn Tyr  
 1 5 10 15

Glu Leu Glu Ser Glu Val Gln Arg Leu Lys Glu Arg Val Ala Gln Leu  
 20 25 30

<210> 11  
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 <213> artificial sequence

<220>  
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 <223> hetero-associating (poly)peptide

<400> 11

Val Ala Gln Leu Glu Glu Lys Val Lys Thr Leu Lys Ala Lys Asn Tyr  
 1 5 10 15

Glu Leu Lys Ser Lys Val Gln Arg Leu Lys Glu Lys Val Ala Gln Leu  
 20 25 30

<210> 12  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

&lt;400&gt; 12

Val Ala Gln Leu Gln Glu Glu Val Lys Thr Leu Gln Ala Glu Asn Tyr  
 1 5 10 15

Glu Leu Arg Ser Glu Val Gln Arg Leu Glu Glu Glu Val Ala Gln Leu  
 20 25 30

&lt;210&gt; 13

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; artificial sequence

&lt;220&gt;

&lt;221&gt; PEPTIDE

&lt;222&gt; (1)..(32)

&lt;223&gt; hetero-associating (poly)peptide.

&lt;400&gt; 13

Val Ala Gln Leu Arg Glu Arg Val Lys Thr Leu Arg Ala Arg Asn Tyr  
 1 5 10 15

Glu Leu Gln Ser Lys Val Gln Arg Leu Lys Glu Arg Val Ala Gln Leu  
 20 25 30

&lt;210&gt; 14

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; artificial sequence

&lt;220&gt;

&lt;221&gt; PEPTIDE

&lt;222&gt; (1)..(32)

&lt;223&gt; hetero-associating (poly)peptide

&lt;400&gt; 14

Val Asp Glu Leu Gln Ala Glu Val Asp Gln Leu Gln Asp Glu Asn Tyr  
 1 5 10 15

Ala Leu Lys Thr Lys Val Ala Gln Leu Arg Lys Lys Val Glu Lys Leu  
 20 25 30

&lt;210&gt; 15

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; artificial sequence

&lt;220&gt;

&lt;221&gt; PEPTIDE

&lt;222&gt; (1)..(32)

&lt;223&gt; hetero-associating (poly)peptide

&lt;400&gt; 15

Val Asp Glu Leu Lys Ala Glu Val Asp Gln Leu Gln Asp Gln Asn Tyr  
 1 5 10 15

Ala Leu Arg Thr Lys Val Ala Gln Leu Arg Lys Glu Val Glu Lys Leu

20

25

30

<210> 16  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

&lt;400&gt; 16

Val Asp Glu Leu Glu Ala Glu Val Asp Gln Leu Lys Asp Gln Asn Tyr  
 1 5 10 15

Ala Leu Lys Thr Lys Val Ala Gln Leu Gln Lys Gln Val Glu Lys Leu  
 20 25 30

<210> 17  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

&lt;400&gt; 17

Val Asp Glu Leu Arg Ala Lys Val Asp Gln Leu Gln Asp Glu Asn Tyr  
 1 5 10 15

Ala Leu Glu Thr Glu Val Ala Gln Leu Gln Lys Arg Val Glu Lys Leu  
 20 25 30

<210> 18  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

&lt;400&gt; 18

Val Asp Glu Leu Glu Ala Glu Val Asp Gln Leu Glu Asp Gln Asn Tyr  
 1 5 10 15

Ala Leu Gln Thr Arg Val Ala Gln Leu Glu Lys Arg Val Glu Lys Leu  
 20 25 30

<210> 19  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 19

Val Asp Glu Leu Lys Ala Lys Val Asp Gln Leu Lys Asp Lys Asn Tyr  
 1 5 10 15

Ala Leu Arg Thr Lys Val Ala Gln Leu Arg Lys Lys Val Glu Lys Leu  
 20 25 30

<210> 20  
 <211> 32  
 <212> PRT  
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<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 20

Val Asp Glu Leu Arg Ala Gln Val Asp Gln Leu Gln Asp Lys Asn Tyr  
 1 5 10 15

Ala Leu Arg Thr Arg Val Ala Gln Leu Lys Lys Arg Val Glu Lys Leu  
 20 25 30

<210> 21  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
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 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 21

Val Asp Glu Leu Gln Ala Glu Val Asp Gln Leu Gln Asp Gln Asn Tyr  
 1 5 10 15

Ala Leu Arg Thr Gln Val Ala Gln Leu Lys Lys Lys Val Glu Lys Leu  
 20 25 30

<210> 22  
 <211> 32  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)  
 <223> hetero-associating (poly)peptide

<400> 22

Val Asp Glu Leu Arg Ala Gln Val Asp Gln Leu Glu Asp Gln Asn Tyr  
1 5 10 15

Ala Leu Glu Thr Gln Val Ala Gln Leu Glu Lys Glu Val Glu Lys Leu  
20 25 30

<210> 23

<211> 32

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> hetero-associating (poly)peptide

<400> 23

Val Asp Glu Leu Gln Ala Lys Val Asp Gln Leu Lys Asp Glu Asn Tyr  
1 5 10 15

Ala Leu Gln Thr Lys Val Ala Gln Leu Gln Lys Arg Val Glu Lys Leu  
20 25 30

<210> 24

<211> 32

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<222> (1)..(32)

<223> hetero-associating (poly)peptide

<400> 24

Val Asp Glu Leu Arg Ala Glu Val Asp Gln Leu Glu Asp Glu Asn Tyr  
1 5 10 15

Ala Leu Arg Thr Arg Val Ala Gln Leu Arg Lys Gln Val Glu Lys Leu  
20 25 30

<210> 25

<211> 103

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA  
construct

<220>

<221> misc\_feature

<222> (1)..(103)

<220>



<223> nnn=mix of aag, cag, gag, cgt or aat, gtt

<400> 25

tactgtggcg caactgnnng aannngtgaa aacccttnnn gctnnnnnnt atgaacttnn 60

ntctnnngtg agcgcttggn ngagnnngtt gccagcttg cta

103

<210> 26

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(32)

<220>

<223> xaa at position 5, 7, 12, 14, 19, 21, 26 and  
28=mix of glu, lys, gln, arg

<220>

<223> xaa at position 15=mix of asn, val

<400> 26

Val Ala Gln Leu Xaa Glu Xaa Val Lys Thr Leu Xaa Ala Xaa Xaa Tyr  
1 5 10 15

Glu Leu Xaa Ser Xaa Val Gln Arg Leu Xaa Glu Xaa Val Ala Gln Leu  
20 25 30

<210> 27

<211> 104

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA construct

<220>

<221> misc\_feature

<222> (1)..(104)

<220>

<223> nnn=mix of aag, cag, gag, cgt or aat, gtt

<400> 27

ctccgttgac gaactgnnng ctnnngttga ccagctgnnn gacnnnnnnt acgctctggn 60

naccnnngtt cgcagctggn naaannngtg gaaaagctgt gata

104

<210> 28

<211> 32

<212> PRT

<213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: synthetic construct

<220>  
 <221> PEPTIDE  
 <222> (1)..(32)

<220>  
 <223> xaa at position 5, 7, 12, 14, 19, 21, 26 and 28=mix of glu, lys, gln, arg

<220>  
 <223> xaa at position 15=mix of asn, val

<400> 28  
 Val Asp Glu Leu Xaa Ala Xaa Val Asp Gln Leu Xaa Asp Xaa Xaa Tyr  
           1                  5                  10                  15  
 Ala Leu Xaa Thr Xaa Val Ala Gln Leu Xaa Lys Xaa Val Glu Lys Leu  
                   20                  25                  30

<210> 29  
 <211> 38  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(38)  
 <223> synthetic construct  
       DNA primer

<400> 29  
 ggagtactgg catgcagtcg actactgtgg cgcaactg 38

<210> 30  
 <211> 32  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(32)  
 <223> synthetic construct  
       DNA reverse primer

<400> 30  
 ggactagtag ctctcgctagc aagctgggca ac 32

<210> 31  
 <211> 38  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(38)  
 <223> synthetic construct  
 DNA forward primer

<400> 31  
 ggagtagctgg catgcagtcg acctccgttg acgaactg

38

<210> 32  
 <211> 32  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(32)  
 <223> synthetic construct  
 DNA reverse primer

<400> 32  
 ggactagtgc tagcttctga cagcttttcc ac

32

<210> 33  
 <211> 15  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(15)  
 <223> synthetic construct  
 cloning linker

<400> 33

Ala Ser Gly Thr Ser Ser Gly Thr Ser Ser Thr Ser Ser Gly Ile  
 1 5 10 15

<210> 34  
 <211> 14  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(14)  
 <223> synthetic construct  
 cloning linker

<400> 34

Ser Glu Ala Ser Gly Thr Ser Ser Gly Thr Ser Ser Thr Ser  
 1 5 10

<210> 35  
 <211> 37

<212> PRT  
 <213> artificial sequence  
 <220>  
 <221> PEPTIDE  
 <222> (1)..(37)  
 <223> N-acetylated and C-amidated synthetic peptide

<400> 35

Ser Thr Thr Val Ala Gln Leu Glu Glu Lys Val Lys Thr Leu Arg Ala  
 1 5 10 15

Gln Asn Tyr Glu Leu Lys Ser Arg Val Gln Arg Leu Arg Glu Gln Val  
 20 25 30

Ala Gln Leu Ala Ser  
 35

<210> 36  
 <211> 37  
 <212> PRT  
 <213> artificial sequence

<220>  
 <221> PEPTIDE  
 <222> (1)..(37)  
 <223> N-acetylated and C-amidated synthetic peptide

<400> 36

Ser Thr Ser Val Asp Glu Leu Gln Ala Glu Val Asp Gln Leu Gln Asp  
 1 5 10 15

Glu Asn Tyr Ala Leu Lys Thr Lys Val Ala Gln Leu Arg Lys Lys Val  
 20 25 30

Glu Lys Leu Ser Glu  
 35